

2019 Automatic tuning mobile HF antenna



The Barrett 2019 is an automatic tuning mobile antenna, designed to interface with Barrett 2000 series transceivers.

Providing a frequency coverage of 2 to 30 MHz, the Barrett 2019 features rapid tuning (typically <math><1.5\text{ S}</math>) and low power consumption. High radiation efficiency and accurate tuning are assured by maximising antenna current (not minimising the VSWR) on every tune. The Barrett 2019 antenna incorporates a wideband amplifier that is activated in receive mode to enable channel scanning. Due to its rugged RF design, the Barrett 2019 antenna can also be used with high duty cycle applications such as the Barrett 923 or 2020 fax and data system and is compatible with ALE operation.

An optional GPS receiver can be fitted within the 2019 antenna casing and interfaces directly through the RF control cable to current production 2050 transceivers.

The active tuning elements of the antenna are housed in black waterproof, highly impact resistant technical plastic moulding. The housing incorporates a heavy duty anti-vibration mount at its base. Even with its rugged construction, the Barrett 2019 weighs only 3.6 kg.

The Barrett 2019 is supplied standard with a two piece fibreglass MIL-STD whip and a tapered spring. An optional NVIS extension is available in the form of two extra whip sections. The main antenna body has a MIL-STD control cable connector and a UHF RF connector. The 2019 is supplied with a 6 metre composite control and RF cable and connectors to connect it with the transceiver. A 10 metre control RF cable is available as an accessory.



www.barrettcommunications.com.au

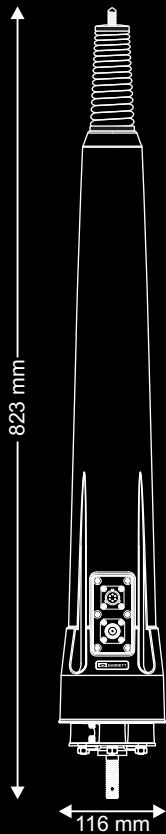
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HF Radio Communications

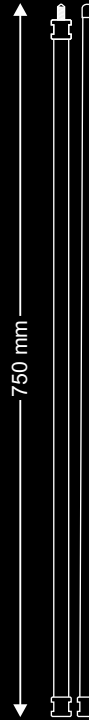
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Specifications

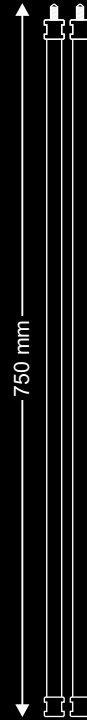
Standards	Complies with MIL Spec. 810 F for drop, dust, temperature, shock and vibration
Frequency range	2 MHz to 30 MHz (continuous)
Power handling capability	150 W PEP
VSWR	Better than 2:1 when tuned
Tuning time	Less than 1.5 seconds (typical)
Operating temperature	-30°C to +60°C
Humidity	95% relative, non-condensing
Environmental	IP68 immersion 1 m for 1 hr
Supply voltage	12.6 V DC (derived from transceiver)
Antenna impedance	50 ohms unbalanced
Mounting	M16 stud with provision for padlock
Input current	Average 80 mA @ +12.6 V input
Shock	MIL-STD-810D method 516.3 procedure VI
Vibration	MIL-STD-810D method 514.3



Main antenna body weight including heavy duty spring 3.2 kg



Standard 2 piece whip kit 0.387 kg



NVIS 2 piece extension whip kit 0.474 kg



Total antenna lengths with standard and NVIS whips



Head Office:
 Barrett Communications Pty Ltd
 P O Box 1214, Bibra Lake WA 6965 AUSTRALIA
 Toll Free Tel: 1800 999 580 Tel: +618 9434 1700 Fax: +618 9418 6757
 email: information@barrettcommunications.com.au

Americas Office:
 Barrett USA LLC 15941 W. 65th Street
 Suite 373, Shawnee, Kansas 66217 USA
 Tel: +1 913 671 9068
 email: information@barrettusa.com

European Office:
 Barrett Europe Limited, Unit 9, Fulcrum 2, Victory Park,
 Solent Way, Whiteley,
 PO15 7FN UNITED KINGDOM
 Tel: +44 1489 880332
 Fax: +44 1489 565422
 email: information@barretteurope.co.uk

